

GENERIC MOCC REALTIME EIF

OBJECTIVES:

Verify the ability of the MOCC to transmit GCMRs to the NCCDS.
Verify the ability of the MOCC to receive UPD from the NCCDS.

PREREQUISITS:

Successful completion of CSA OPS Scenarios TBD.
Successful completion of SO OPS Scenarios TBD.

TEST SETUP:

- Active Period
- Automatic Scheduling
- Activate STRS to MOCC and WSC (NTS) through the end of the current RAYDAY.
- Event Database shall be void of events through the end of the current RAYDAY.
- TDRS-041 is assigned to SGLT1 in the NTS and the NCCDS Databases.
- TDRS-174 is assigned to SGLT2 in the NTS and the NCCDS Databases.
- TDRS SETS are defined as follows: TDE = TDRS-041
 TDW = TDRS-174
- GAR file for ODMs active in the NTS.

TEST SCRIPT:

The TEST SCRIPT will be developed upon receipt from the MOCC of the requirements needing test. A High Level sample of the script may look like:

<u>STEP</u>	<u>ELEMENT</u>	<u>ACTION</u>
<i>Event #1 Scheduling.</i>		
Step 1.	NCC	Schedules Event #1, with a start time of ASAP, and a duration of 1 hour, for the following service configuration: MAF/MAR/TRK The return service shall be DG1. The Tracking Service shall be One Way. The event is to be non-coherent. Verify the event schedules and a SHO (02/01) is transmitted to the NTS. Verify a USM is transmitted to the MOCC.
<i>Event #1 UPD Request.</i>		
Step 2.	MOCC	Issues a User Performance Data Request (92/04) for Event #1.
<i>Event #1 Execution</i>		
Step 3.	NCC	At Event Start, NCC verifies receipt of the MA ODMs from the NTS and verifies NCC is transmitting UPDs to the MOCC.

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Step 4. MOCC Verifies receipt of the UPDs the NCC.

Event #1 GCMR Processing

Step 5. MOCC Begins to transmit the following GCMRs

Forward Re-ACK
Return Re-ACK
Return Service Data Rate Change
Forward Service Data Rate Change
Return Service Data Stream Id Change
Return Channel Time Delay
Forward Link EIRP Reconfiguration
Expanded User Frequency Uncertainty Request.
Doppler Compensation Inhibit.
Doppler Compensation Enable.

Step 6. NCC Verifies receipt of each GCMR and verifies GCM Status and Disposition messages are transmitted to the MOCC.

Step 7. MOCC Verifies receipt of each GCM Status and Disposition.

Event #1 UPD De-Select.

Step 8. MOCC Issues a User Performance Data Request (92/04) De-Select for Event #1.

TEST DATA REQUIREMENTS:

To be determined based upon MOCC requirements.

The MOCC is to complete the following pages detailing the Events desired, GCMRs expected to be submitted for each event, and Performance Data Messages desired to be received for each event. Once complete, the MOCC is to submit the data to NSIA. NSIA will then draft the EIF Test Script and submit the script to the MOCC for review.

_____ MOCC EVENT DESCRIPTIONS

Event #1:

Event Start:

Event Duration:

TDRS:

Services:

Config Codes:

MOCC or NCC Scheduled? (Circle one) NCC MOCC

GCMRs to be executed during event:

Performance Data Messages desired:

Event #2:

Event Start:

Event Duration:

TDRS:

Services:

Config Codes:

MOCC or NCC Scheduled? (Circle one) NCC MOCC

GCMRs to be executed during event:

Performance Data Messages desired:

Event #3:

Event Start:

Event Duration:

TDRS:

Services:

Config Codes:

MOCC or NCC Scheduled? (Circle one) NCC MOCC

GCMRs to be executed during event:

Performance Data Messages desired:

Event #4:

Event Start:

Event Duration:

TDRS:

Services:

Config Codes:

MOCC or NCC Scheduled? (Circle one) NCC MOCC

GCMRs to be executed during event:

Performance Data Messages desired:

Attach additional pages as required.

TEST ITEMS FOR MOCC SELECTION

SERVICES

Legacy TDRS:

TDRS-H/I/J:

Normal

MAF MAR TRK
SSAF SSAR TRK
KuSAF KuSAR TRK

Normal

MAF MAR TRK
SSAF SSAR TRK
KuSAF KuSAR TRK
SMAF SMAR TRK
KaSAF KaSAR

Simulation

MAF EET MAR EET
SSAF EET SSAR EET
KuSAF EET KuSAR EET

Simulation

MAF EET MAR EET
SSAF EET SSAR EET
KuSAF EET KuSAR EET
SMAF EET SMAR EET

Cross Support

MAF SSAR TRK
SSAF MAR TRK

Cross Support

MAF SSAR TRK
SSAF MAR TRK

SSA Combining

SSA Combining

GCMRs (Applicable regardless of TDRS)

Service Reacquisition
Service Reconfiguration
Forward Link Sweep
Expanded User Frequency Uncertainty
Doppler Compensation Inhibit / Enable.
Forward Link EIRP
GCM Status and Disposition messages

PERFORMANCE DATA MESSAGES:

Acquisition Failure Notification
Return Channel Time Delay
Time Transfer
User Performance Data

OTHER: